GRAFITYP

Technical Data Sheet

Grafiprint Media for Water based Inkjet Printers

MP20

Grafiprint digital printing materials

Released on 15th December 2003

Description

Grafiprint MP20 is a white matt micro-porous PE inkjet film, provided with a permanent adhesive. Specially developed for indoor applications.

Application

Grafiprint MP20 micro-porous inkjet film has been especially designed for printing full-colour graphics for indoor advertising on a non-corrugated surface. Grafiprint micro-porous inkjet film can be used on most water based inkjet printers with pigmented inks (not suited for dye inks).

Composition

Front material: micro-porous matt film with a thickness of ± 200 micron, provided with a permanent glue (thickness incl. glue)
Adhesive: permanent pressure-sensitive water-based acrylic adhesive
Backing paper: white craft paper of 90 gr/m²

Product Advantages

- no absorption of moisture at the edges
- outstanding sharpness of edges
- good image quality
- flexible and easy manipulation
- very quick ink drying
- waterproof result once completely dry (± 48 hours)
- ecological
- **Attention** : unlaminated, the material is susceptible to scratches

Product Specifications

Technical properties at a relative humidity of 50 ± 5 % and a temperature of 23 ± 2°C

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		Test method	Result
1.	**Thickness**[1]		
	Thickness vinyl + glue	Din53370	200 micron
	Thickness vinyl + glue + paper	Din53370	300 micron
2.	**Dimensional stability**[2]	Finat 14	0.4 %
3.	**Adhesion strength**[3]		
	After 20 minutes	Finat 1	8.5 N/25mm
	After 24 hours	Finat 1	9.7 N/25mm
4.	**Colour back print**	-	grey
5.	**Flammability**	If applied on aluminium, glass, steel = self-extinguishing	

Storage Instructions

All Grafiprint materials always need to be stored in their original packing and with the original protection flanges (and preferably stored vertically).

In order to avoid any loss of quality, the Grafiprint Inkjet Vinyl should also be stored in suitable conditions, that is at a temperature between 10 and 20°C, and a relative humidity of 50 %. Under these conditions, the vinyl will have a shelf life of 18 months.

Before printing on the Grafiprint materials, we advise you to have them acclimatize for a certain period of time (at least 12 hours) in the room in which they will be printed.

Laminating

A laminate can prolong the outdoor life of a digital print considerably. This also goes for the prints that have been made on the Grafiprint MP20 micro-porous vinyl. As this material does not hold any inkjet coating, it is not necessary to apply the laminate with an overlap, or to overlaminate the sides. It is sufficient to apply a laminate up to the side of the print. Before applying a laminate on the Grafiprint MP20, please make sure the inks have dried sufficiently (3 days up to 1 week), as remaining solvents and moisture can lead to blistering and the laminate coming off.

Removal

MP20 is non-PVC and will break when you try to remove it after ageing. To avoid problems when removing it, we advise you use the following work method :

1. Remove the laminate.
2. Moisten the MP20 with a cloth, moistened with isopropanol. Let this absorb for a while.
3. Scrape off the MP20 with a Grafitack squeegee. The material will crumble off completely.
4. Remove the remaining glue with isopropanol.

Important

The information, mentioned in this product data sheet, is based upon tests that were executed by Grafityp, and that we consider to be reliable. The information always represents an average, a minimum or a maximum value, and should be considered as such. It is only given for your information, and does not give any guarantee. It is up to the end user to decide whether or not the product is suited for his particular application.

The outdoor life span refers to outdoor use under Central European conditions. The life span of our films is based upon professional application on a dry, degreased and suitable background. Tropical conditions, or the use near chemical emission, may have a detrimental effect on the life span.

1) The thickness of the Grafiprint materials may vary slightly. The indicated value is an average value, obtained from a series of measurements, in which a tolerance of 10 % is acceptable.

2) The dimensional stability is the shrinkage in %. This value is measured by applying the film on aluminium, and placing it in a hot-air oven at 70°C for 48 hours. The indicated value is a maximum value, obtained from a series of measurements.

3) The adhesion strength is measured on glass, and this after 20 minutes and after 24 hours. The film is removed again in an angle of 180° and at a speed of 300 mm/sec. The indicated value is an average value, obtained from a series of measurements.

GRAFIPRINT MP20 COMPATIBILITY LIST

Printer	Ref. MP20 Inkjet FilmMicro-porous Matt White
DGI	
OmegaJet OJ52 / OJ62 (pigmented ink)	✔
Encad	
Encad Novajet Pro-E 500 (GO ink)	✔
Encad Novajet Pro600e (GO ink)	✔
Epson	
Epson Stylus Pro 7500 / 9500 (pigmented ink)	✔
Hewlett Packard	
HP DesignJet 2x00 / 3x00 CP (pigmented ink)	✔
HP DesignJet 5000 / 5000PS (pigmented ink)	✔
Mutoh	
Falcon Graphics RJ4000 / RJ4100 (pigmented ink)	✔
Falcon Graphics RJ6000 / RJ6100 (pigmented ink)	✔
Roland	
CammJet CJ400 / CJ500	✔
HifiJet FJ40 / FJ50 / FJ42 / FJ52	✔
HifiJet FJ400 / FJ500 / FJ600 (pigmented ink)	
✔ = Suited	X = Not Suited